

REPORT NO. 78-3-15

FOREST INSECT AND DISEASE MANAGEMENT UNIT
U.S. FOREST SERVICE
DORAVILLE, GEORGIA

REPORT OF AERIAL DETECTION SURVEY

LAND OWNERSHIP OR SURVEY AREA: CHEROKEE NATIONAL FOREST

STATE: **TENNESSEE**

AREA WITHIN SURVEY BOUNDARY: 1,204,112 ACRES

DATE: 6/5-12/78

PERCENT COVERAGE: 50%

AIRCRAFT: CESSNA 182

CREW: C.W. DULL, B.I. HAMMOND, W.A. CAROTHERS

REPORT PREPARED BY: W.A. CAROTHERS

SURVEY OBJECTIVES: TO DETECT AND DELINEATE AREAS OF
HARDWOOD DEFOLIATION CAUSED BY THE FALL CANKERWORM,
Alsophila pometaria (HARRIS).

RESULTS

1. THIRTEEN SMALL AREAS OF LIGHT HARDWOOD DEFOLIATION COVERING 4,000 ACRES WERE OBSERVED (REFER TO MAPS).
2. SEVERAL SPOTS OF RED OR DYING PINES CONTAINING 1-5 TREES WERE OBSERVED. ONE SPOT CONTAINING 20 TREES WAS OBSERVED IN THE AREA SOUTH OF BRIDGEPORT, ON THE NOLICHUCKY RANGER DISTRICT (REFER TO MAPS).

CONCLUSIONS

THE IMPACT OF FALL CANKERWORM DEFOLIATION ON HARDWOODS IN THE SOUTHERN APPALACHIAN MOUNTAINS IS CURRENTLY UNDER INVESTIGATION BY FOREST INSECT AND DISEASE MANAGEMENT PERSONNEL AT THE ASHEVILLE FIELD OFFICE. FALL CANKERWORM DEFOLIATION RARELY CAUSES TREE MORTALITY, BUT IS A NUISANCE IN HIGH-USE AREAS SUCH AS CAMPGROUNDS, PICNIC AREAS, HIKING TRAILS AND OTHER SCENIC AREAS. PRIOR TO THIS YEAR, FALL CANKERWORM INFESTATIONS HAD NEVER BEEN REPORTED ON NATIONAL FOREST LANDS IN EAST TENNESSEE.

ALTHOUGH THE PRESENT FALL CANKERWORM INFESTATION IS AT A LOW LEVEL, IT MAY BE AN INDICATION OF AN IMPENDING OUTBREAK. GROUND CHECKS OF THE DEFOLIATED AREAS WILL BE MADE BY FOREST INSECT AND DISEASE MANAGEMENT PERSONNEL. FIELD SURVEILLANCE BY NATIONAL FOREST PERSONNEL FOR INSECT OR DISEASE PROBLEMS SHOULD BE CONTINUED.

FOR ANY ADDITIONAL INFORMATION, CONTACT:

FOREST INSECT AND DISEASE MANAGEMENT UNIT
USFS - SOUTHEASTERN AREA

NORTHGATE OFFICE PARK, ROOM 2103	OR	P.O. Box 5895
3620 INTERSTATE 85, N.E.		ASHEVILLE, N.C. 28802
DORAVILLE, GA. 30340		TELEPHONE: 704-258-2850
TELEPHONE: 404-221-4796		EXT. 625

U.S. DEPARTMENT OF AGRICULTURE

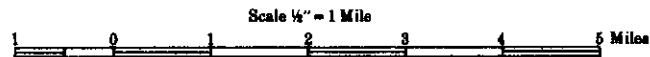
FOREST SERVICE

EDWARD P. CLIFF, CHIEF


CHEROKEE NATIONAL FOREST


and
(Cherokee Purchase Unit)
(UNAKA & WATAUGA RANGER DISTRICTS)
TENNESSEE

1968

































USFS Aerial Survey Team
Fall Cankerworm Survey 6/5-12/78

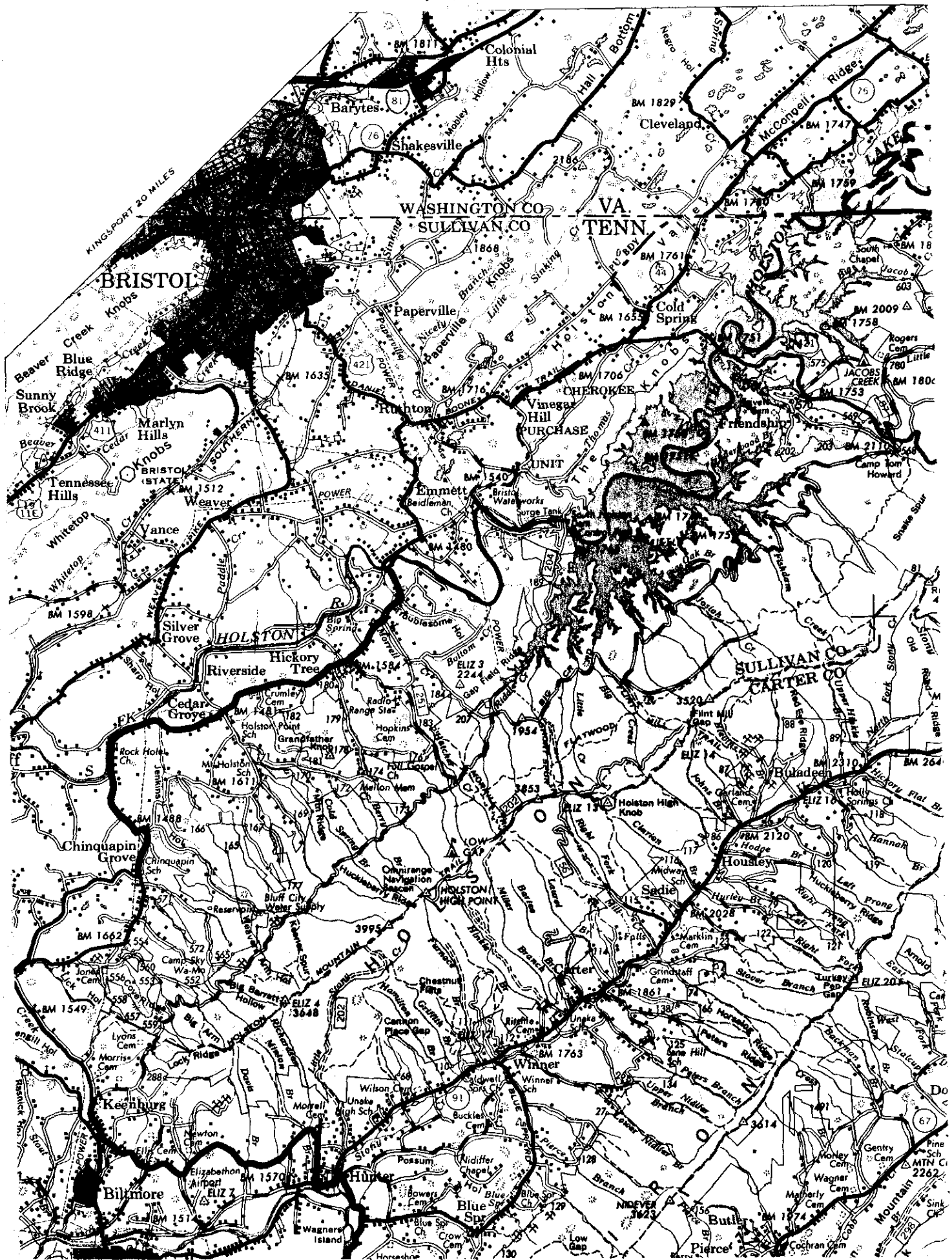
 Areas of hardwood defoliation

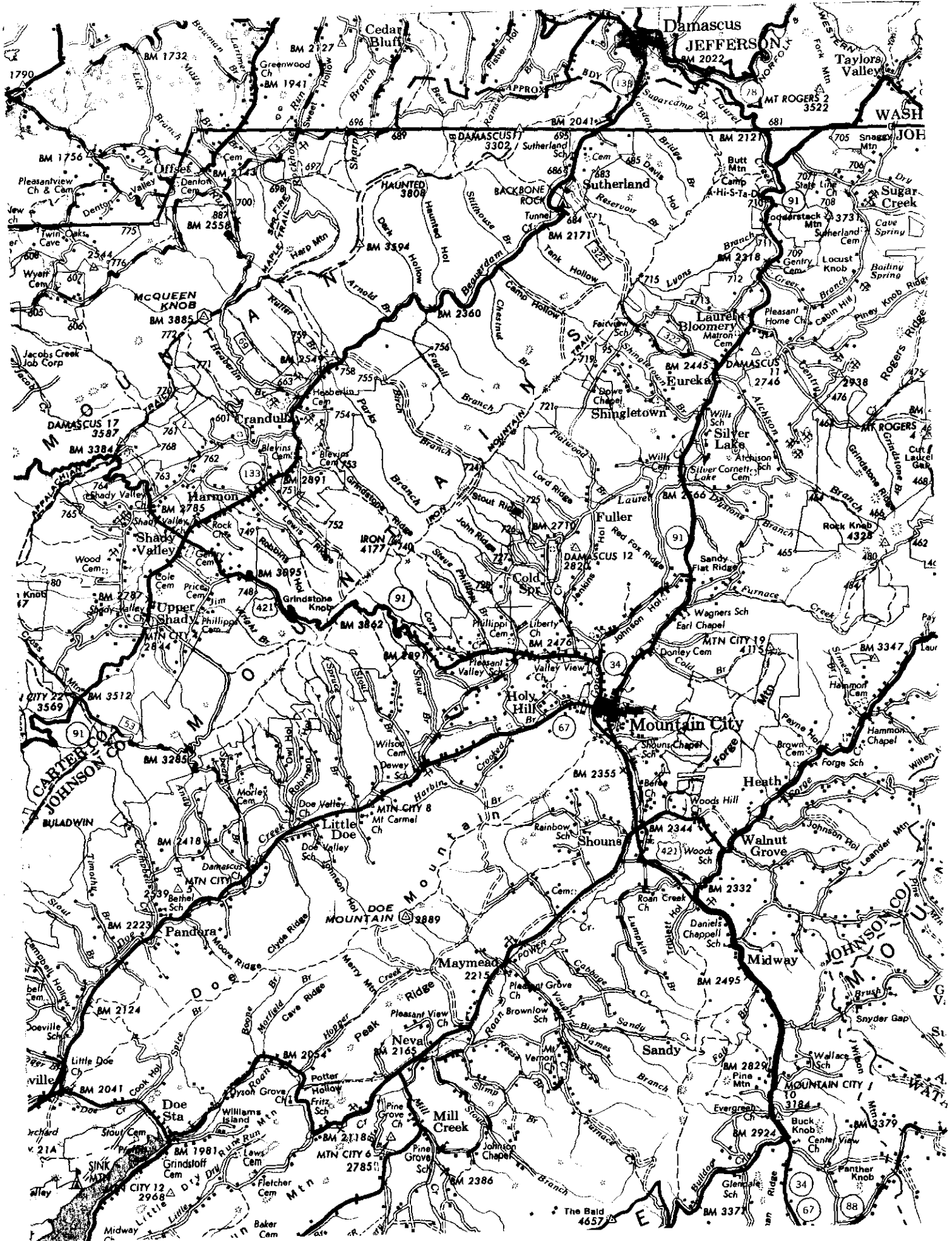
 Areas of red or yellow pines
with number of affected trees

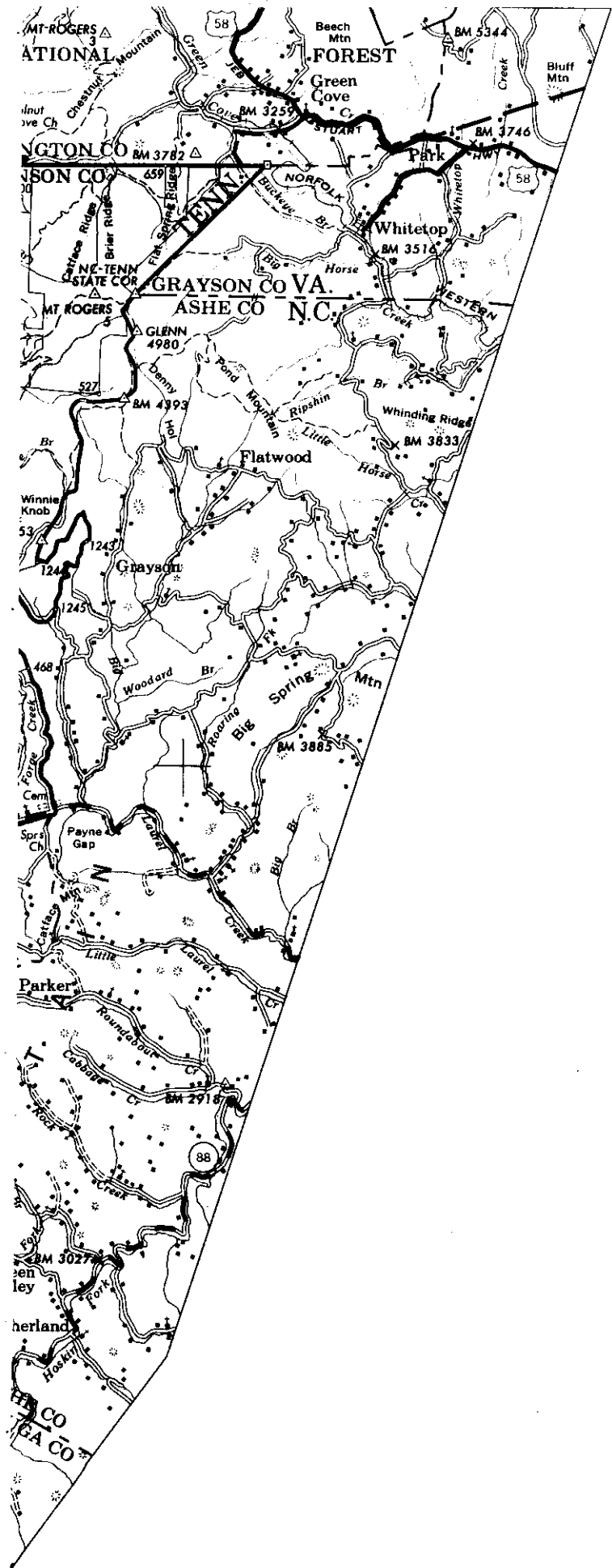
LEGEND

 National Forest Boundary	 Mine, Quarry or Gravel Pit
 Adjacent National Forest Boundary	 Church
 Purchase Unit Boundary	 School
 Paved Road - Primary	 Cemetery
 All Weather or Paved Secondary Road	 Class "A" Corners
 Dirt Road	 Located or Landmark Object
 Primitive Road	 Boundary Monument
 Trail	 National Forest Land
 Railroad	 Interstate Highway
 Horizontal Control Station	 U.S. Highway
 Horizontal Control and Permanent Lookout Station	 State Highway
 Permanent Lookout Station	 Forest Route
 Forest Service Station	 Power Transmission Line
 District Ranger Station	 Pipeline or Conduit
 Recreation Site	 Telephone or Telegraph Line

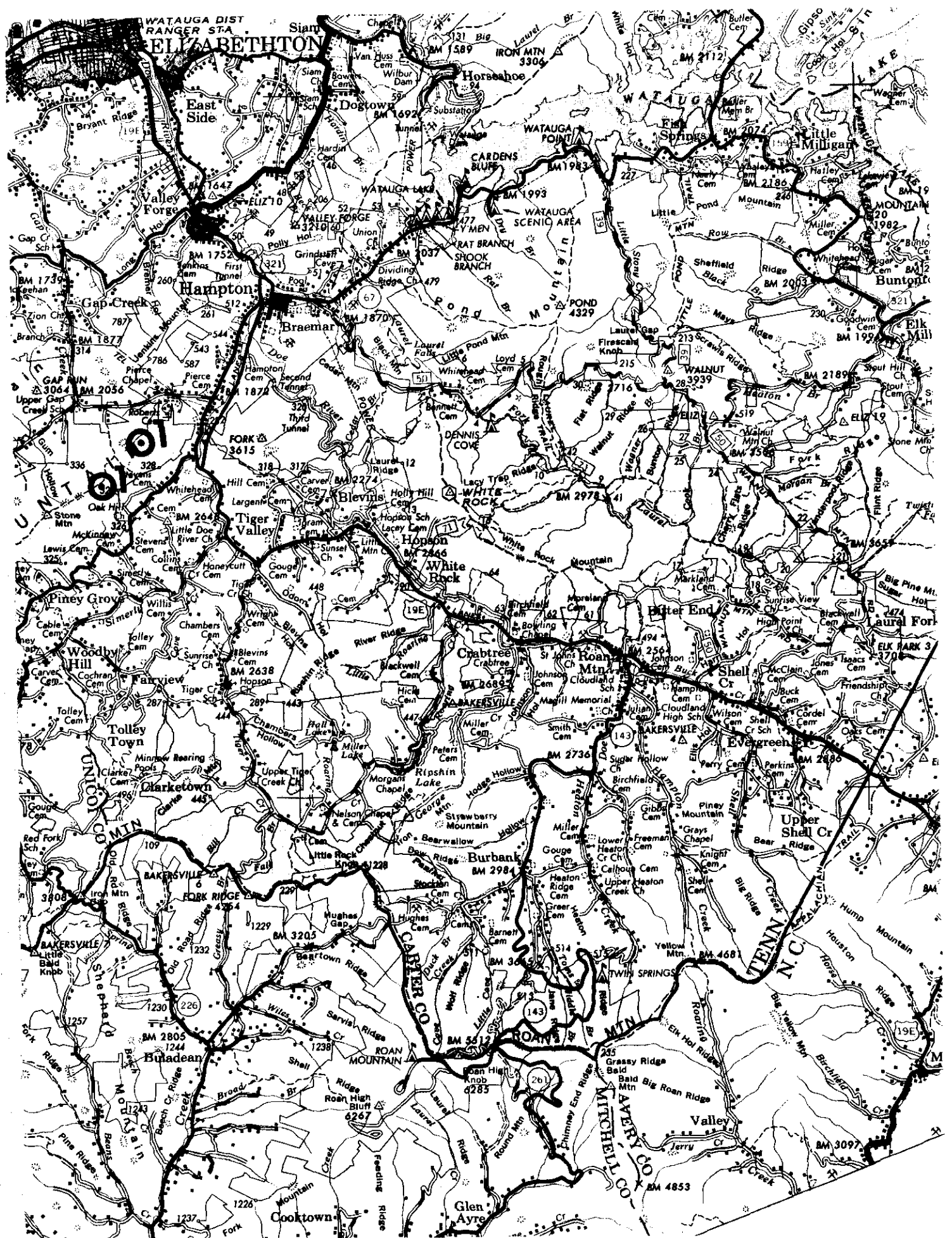
FOREST SUPERVISOR'S HEADQUARTERS AT CLEVELAND, TENN.

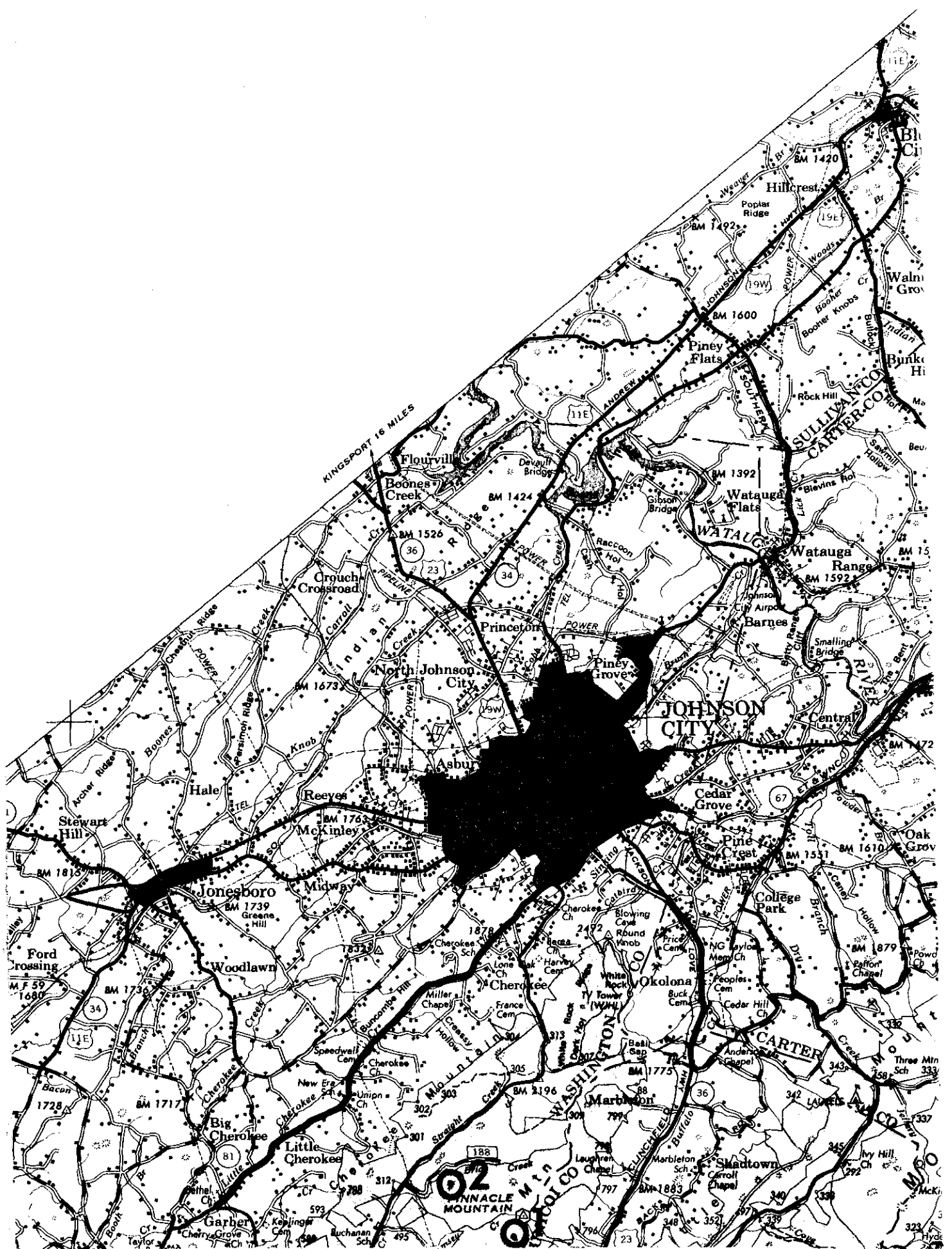


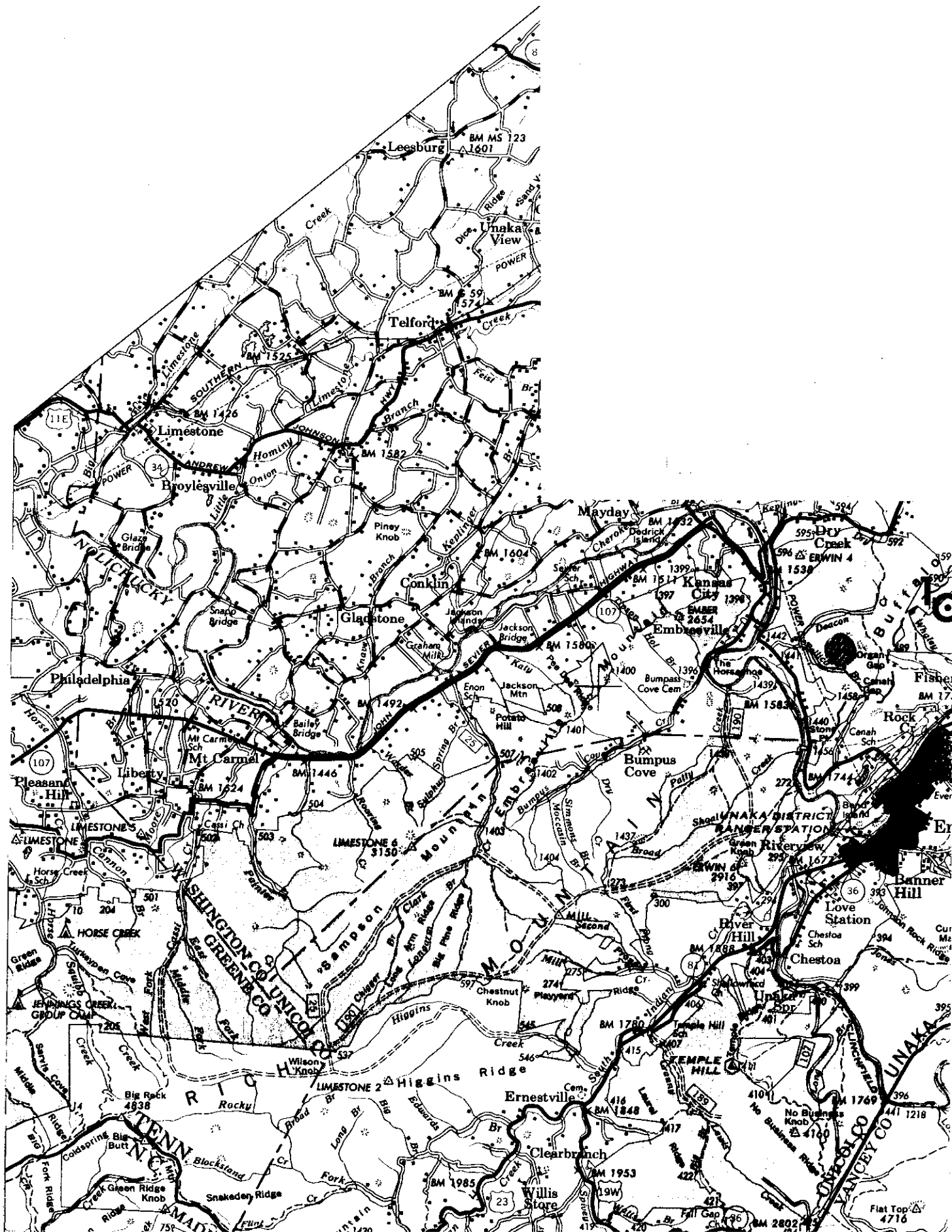


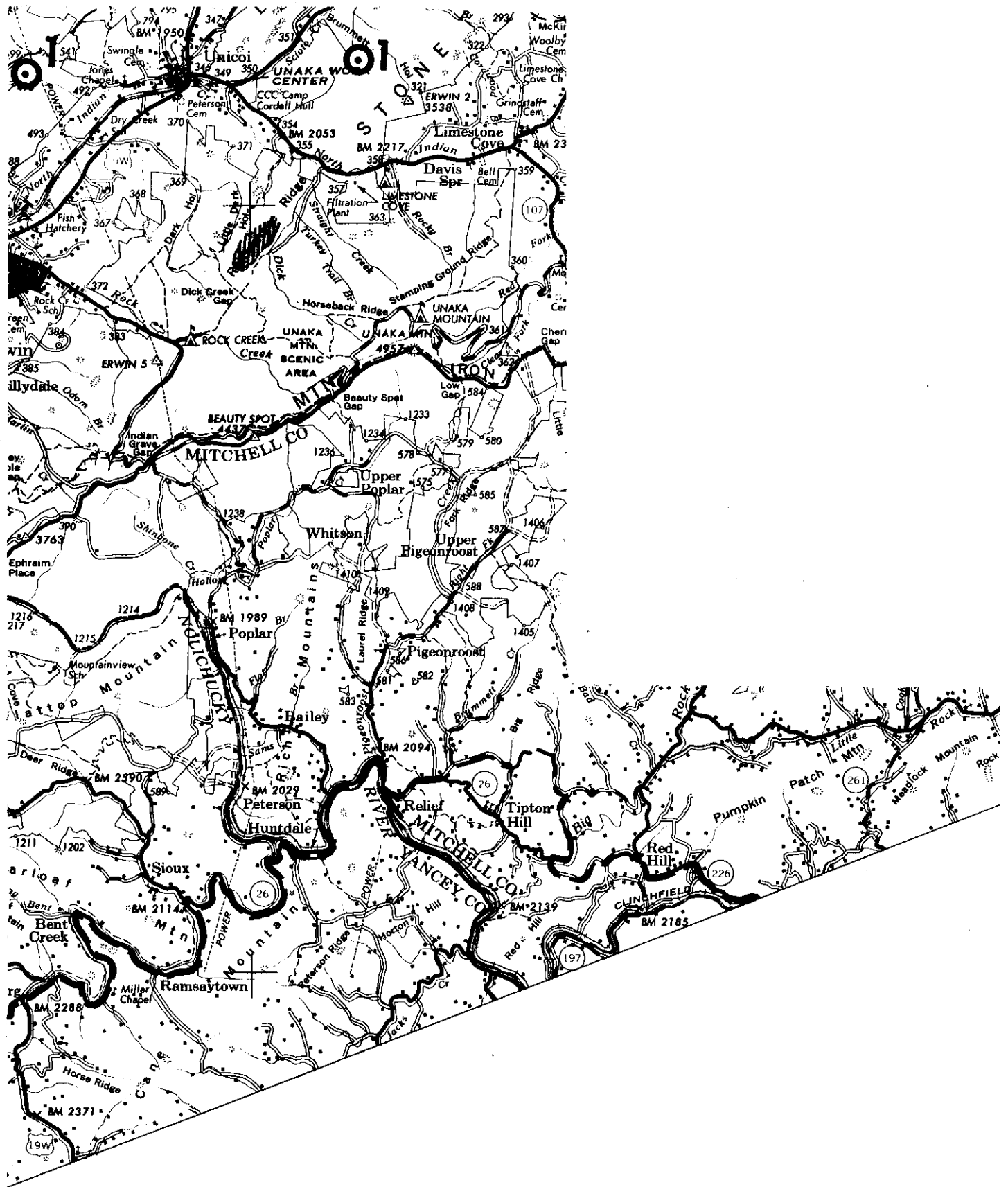


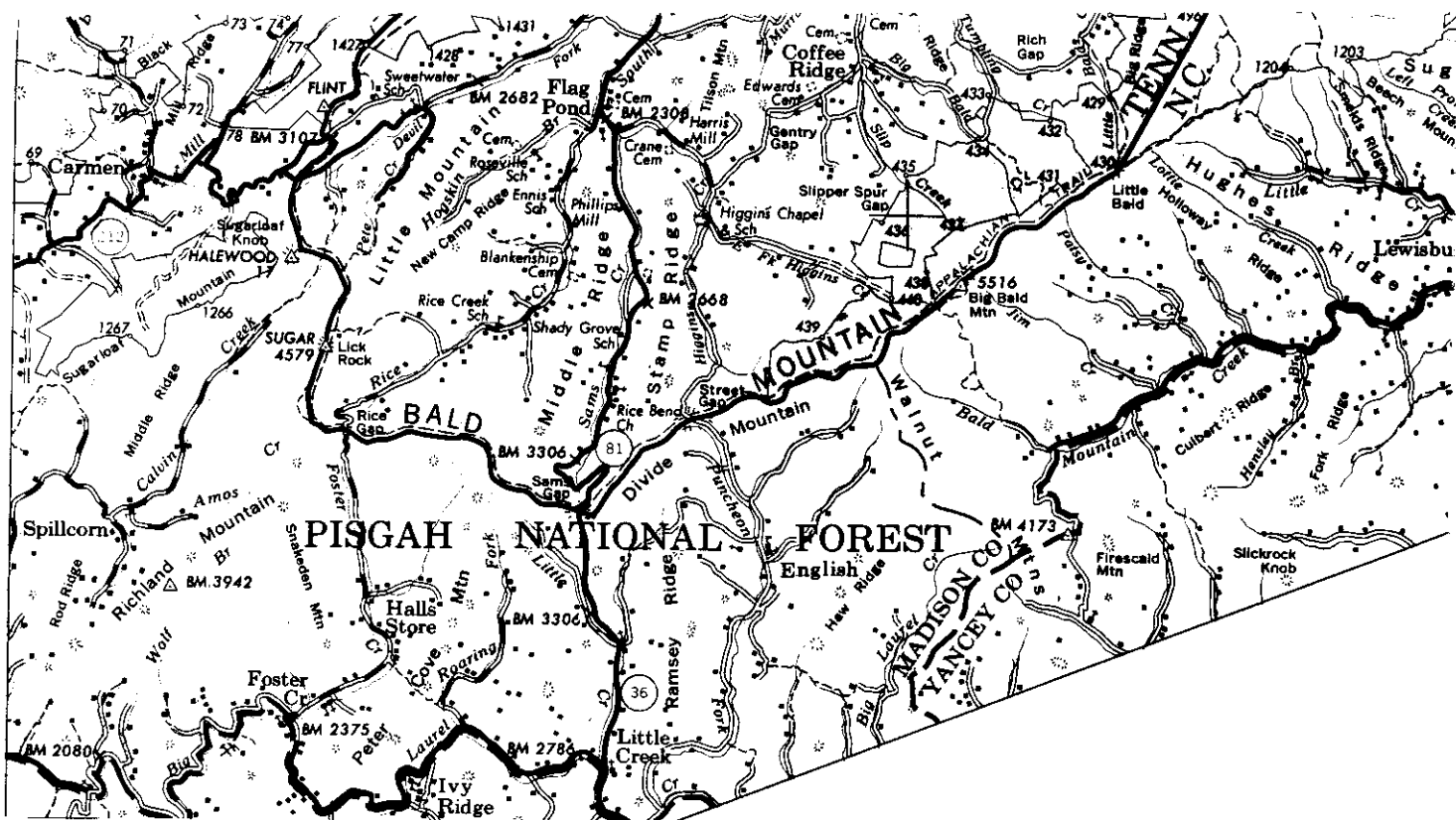












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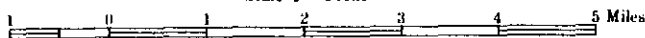
CHEROKEE NATIONAL FOREST

(NOLICHUCKY RANGER DISTRICT)

TENNESSEE

1968

Scale 1/2" = 1 Mile



USFS Aerial Survey Team

Fall Cankerworm Survey 6/5-12/78



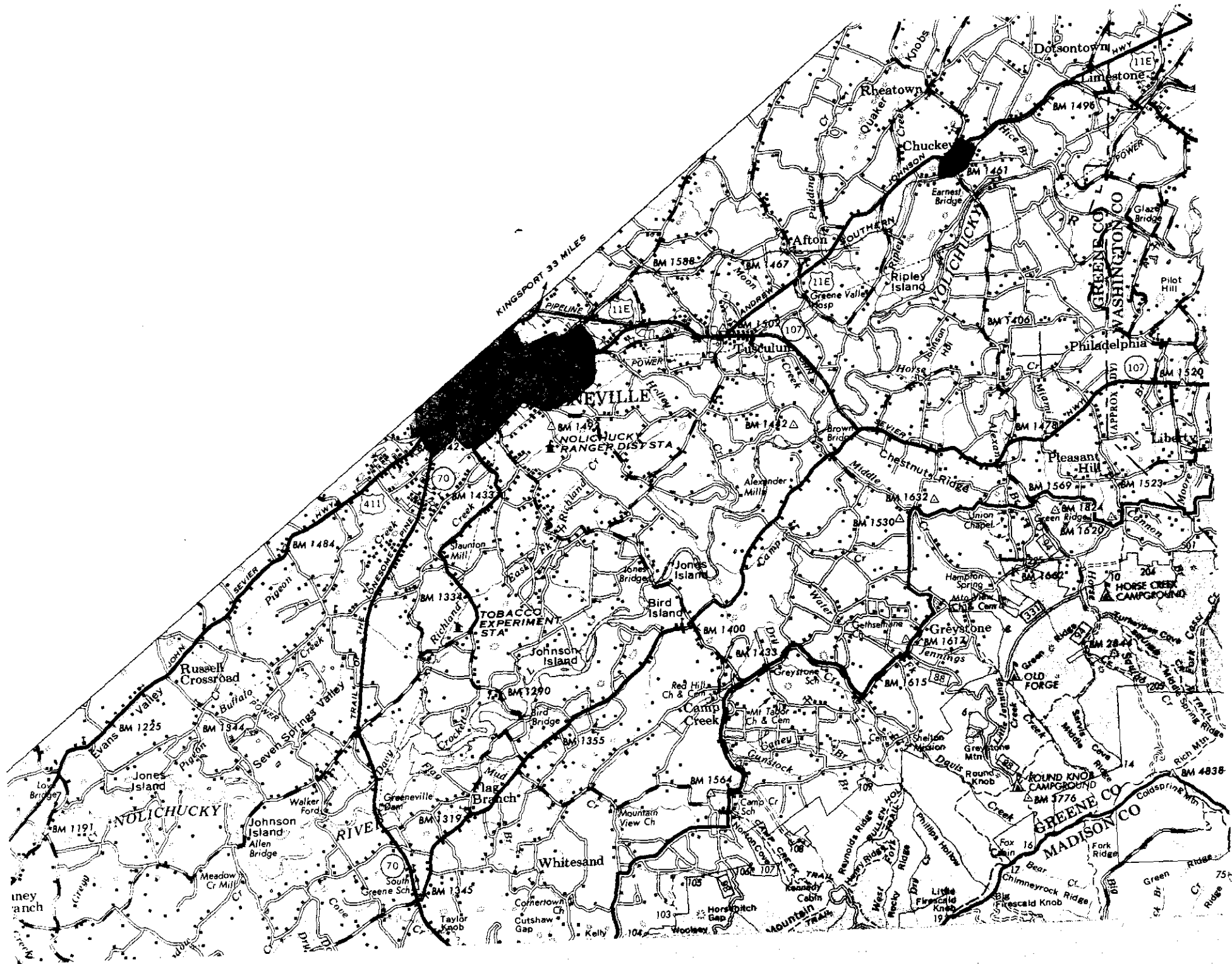
Areas of hardwood defoliation

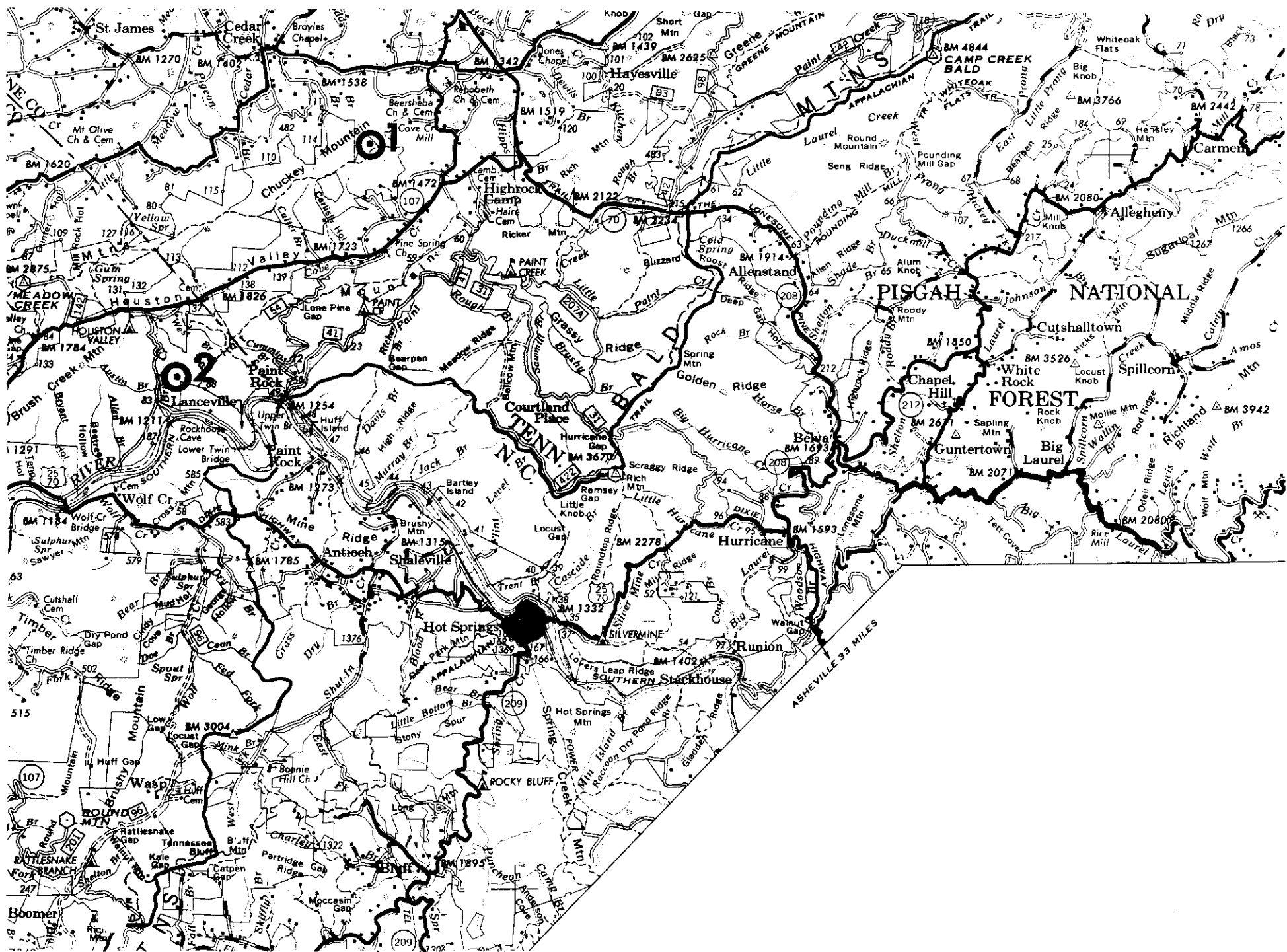


Areas of red or yellow pines
with number of affected trees

LEGEND

	National Forest Boundary		Recreation Site
	Adjacent National Forest Boundary		Mine, Quarry or Gravel Pit
	Paved Road - Primary		Church
	All Weather or Paved Secondary Road		School
	Dirt Road		Class "A" Corner
	Primitive Road		Cemetery
	Trail		National Forest Land
	Railroad		Interstate Highway
	Horizontal Control Station		U.S. Highway
	Horizontal Control and Permanent Lookout Station		State Highway
	Permanent Lookout Station		Forest Route
	Forest Service Station		Power Transmission Line
	District Ranger Station		Telephone or Telegraph Line
			Pipeline or Conduit





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FOREST SERVICE

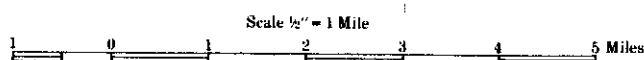
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CHEROKEE NATIONAL FOREST

(OCOEE, HIWASSEE AND TELlico RANGER DISTRICTS)

TENNESSEE

1968



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STATE OF TENNESSEE LAND LOT SYSTEM
STATE OF GEORGIA LAND LOT SYSTEM

District Line
 Section Line

FOREST SUPERVISOR'S OFFICE AT CLEVELAND, TENNESSEE

